

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Weshington, D.C. 20231

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		DARE MARLE: 11/20/9	0
The is a communication for the elements in charge of COMMISSIONC ROPPAGENTS AND TRADE-MARKS	i i e u ubonesa aes		
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This application has been examined A shortened statutory period for response to this ac Fallure to respond within the period for response within the perio			
Part 1 THE FOLLOWING ATTACHMENT(S) ARE	PART OF THIS ACTION:		
Notice of References Cited by Examiner Notice of Art Cited by Applicant, PTC-1 Information on How to Effect Drawing Cited by Applicant of Company Cited Branch Cited Brawing Cited Brawin	449. 4. 🔲	Notice re Patent Drawing, PTO-948. Notice of Informal Patent Application, Form P	PTO-152
Part II SUMMARY OF ACTION			
1. Claims 2-7		are pending in the	he application.
Of the above, claims		are withdrawn from 6	consideration.
2. Claims /		have been cano	celled.
3. Claims		are allowed.	
4. Claims <u>2-7</u>		are rejected.	
5. Claims		are objected to	
6. Claims	· · · · · · · · · · · · · · · · · · ·	are subject to restriction or election requ	uirement.
7. This application has been filed with infor	mal drawings under 37 C.F.R. 1.85 w	hich are acceptable for examination purposes.	
8. Formal drawings are required in respons	se to this Office action.		
8. Formal drawings are required in respons 9. The corrected or substitute drawings hat are acceptable; not acceptable	ve been received on	Under 37 C.F.R. 1,84 th	nese drawings
The corrected or substitute drawings have are coceptable; not acceptable.	ve been received on(see explanation or Notice re Patent (•
9. The corrected or substitute drawings have are acceptable; not acceptable 10. The proposed additional or substitute at examiner; disapproved by the exam	ve been received on	Drawing, PTO-948).	he
O. The corrected or substitute drawings have are acceptable; not acceptable The proposed additional or substitute of examiner; disapproved by the exam	ve been received on	Drawing, PTO-948). has (have) been approved by the second approved; disapproved (see explanation) tifled copy has been received and not been	he
9. The corrected or substitute drawings has are acceptable: not acceptable 10. The proposed additional or substitute at examiner; disapproved by the exam 11. The proposed drawing correction, filed 12. Acknowledgement is made of the claim f	ve been received on	Prawing, PTO-948). has (have) been approved by the approved; approved (see explanation) tifled copy has been received not been all matters, prosecution as to the merits is close.	he) n received

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Claims 2-7 are presented for examination. The amendments filed July 26, 1990 and September 26, 1990 have been received and entered.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 2-8 are rejected under 35 U.S.C. 103 as being unpatentable over GB-2,145,112 in view of Lang for the reasons of record as set forth at pages 2-3 of the Office Action of March 28, 1990.

Applicant's arguments filed July 26, 1990 have been fully considered but they are not deemed to be persuasive.

Applicant's assertions that the fluorescent differential between X- and Y-bearing sperm disclosed in the Great Britain reference, i.e. 15%, and the statement found at page 4, lines 38-44 (which is quoted in the response) is sufficient to render the instant invention non-obvious are not persuasive. The cited reference is drawn to the sorting of living spermatozoa via the collection of sperm from a mammal, the staining of the sperm with a fluorescent dye, specifically Hoechst 33342, and passing the sperm through a detecting means and a cell sorting means which sorts the sperm based upon the fluorescent differential. Applicant has presented no evidence of record that the referenced method would not be work even in view of the disclosed

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fluorescent differential which is expected due to the fact that applicant's method of sorting sperm is virtually identical to that disclosed by the Great Britain reference. The sole difference between the disclosed method and that claimed now rests with the temperature at which the sperm is incubated with the fluorescent dye. The claims now stipulate that the sperm should be incubated with the dye at a temperature of 30-39°C. The reference states that the sperm was incubated at room temperature. In the absence of a showing of unexpected result, the incubation of sperm at temperatures of 30-39°C is well within the skill of the practitioner such that, as sperm exists physiologically in the testis at temperatures around 35°C and in the vagina at temperatures around 37-38°C, it would have been obvious to one of ordinary skill in the art to incubate sperm at temperatures at which sperm exists physiologically. Even in view of such a showing, the temperature differential indicates only an improvement in the art of a known process and should therefore be claimed in Jepson format. Applicant's arguments with regard to the Lang reference are not well taken as the reference was used to show that sperm sorted with respect to sex chromosomes is conventionally used via artificial insemination to preselect the sex of offspring, regardless of the method of sorting.

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). The practice of automatically extending the shortened statutory period an additional month upon the filing of a timely first response to a final rejection has been discontinued by the Office. See 1021 TMOG 35.

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 CFR 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Jean C. Witz whose telephone number is (703) 308-3073. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

11/19/90

DOUGLAS W. ROBINSON
SUPERVISORY PATENT EXAMINER
GROUP / PART UNIT LAST

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